

NOTCHED POST of 200 lbs. applied at any point along top rail. POST-TO-BEAM CONNECTION Lumber species & grade = Southern Pine #2 Basement door headroom clearance = 6'-8" min. (pressure treated) 10. Basement egress window path = 36" min.

6x6 or 4x6 post

be 6x6 only)

(posts supporting beam splice shall

 (2×10)

(2 x 12)

16' - 2"

19' - 1"

14' - 0"

16' - 6"

11' - 5"

13' - 6"

3 feet

6x6

(5 1/2" actual)-

_ post

PROHIBITED

CONNECTION

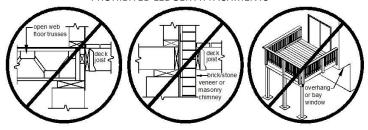
POST CAP

DO NOT support framing loads on existing

Guardrails shall be designed for lateral load

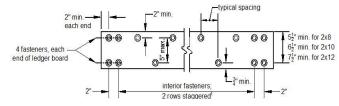
chimney.

PROHIBITED LEDGER ATTACHMENTS



LEDGER BOARD FASTENER SPACING & CLEARANCES

1 Additional interior fasteners are required at chimney or bay window



LEDGER BOARD FASTENER SPACING, ON CENTER

Fastener	Band Board	Joist Span			less than or equal to:			
		6'	8'	10'	12'	14'	16'	18'
Lag Screws	EWP1	24"	18"	14"	12"	10"	9"	8"
	2x lumber	30"	23"	18"	15"	13"	11"	10"
Through Bolts	EWP1	24"	18"	14"	12"	10"	9"	8"
	2x lumber	36"	36"	34"	29"	24"	21"	19"
Wood Screws ²	1" EWP ¹	18"	13"	11"	9"	8"	7"	6"
	2x lumber	19"	14"	11"	9"	8"	7"	6"
Expansion Anchors		36"	36"	34"	29"	24"	21"	19"
Adhesive Anchors	_	32"	32"	32"	24"	24"	16"	16"

- 1 EWP = 1 inch minimum manufactured engineered wood product
- 2 Wood screws shall be permitted to be spaced in accordance with its corresponding evaluation report if less than the values in TABLE above

Through-bolts. Through-bolts shall have a minimum ½-inch diameter. Pilot holes for through-bolts shall be 17/32 to $^9\!/_{16}$ inches in diameter. Through-bolts must be equipped with washers at the bolt-head and nut. Bolts should be tightened six to 12 months after construction due to drying and wood shrinkage.

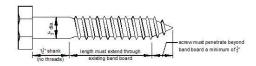
Expansion anchors. Expansion anchors shall be used only when attaching a ledger board to a concrete or solid masonry wall. The bolt or threaded rod of expansion anchors shall have a ½-inch diameter minimum; in some cases, this may require a $^{5}/_{8}$ -inch anchor size. Expansion anchors must be installed per manufacturer's instructions and shall be equipped with washers.

Adhesive anchors. The adhesive anchors with a minimum 1/2-inch diameter threaded rod shall be used when attaching to hollow masonry. Adhesive anchors are also permitted with concrete or solid masonry installations. Anchors shall be installed per manufacturer's instructions and shall be equipped with washers. Adhesive cartridges must remain on the jobsite for inspector verification.

APPROVED ADHESIVE ANCHORS

Manufacturer	Product	
ITW Ramset/Red Head	Epcon Acrylic 7	
Hilti	HY-20	

APPROVED WOOD SCREWS

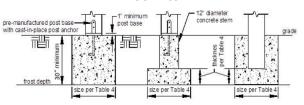


Wood Screws. Approved wood screws listed above with a \(\frac{1}{2} \)-inch diameter may be used to attach to wood-framed

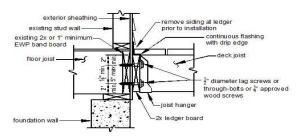
construction. Wood screws shall have a sufficient length to fully penetrate the existing house band board. Installation shall be conformance with the manufacturer's instructions.

Manufacturer	turer Product	
FastenMaster	LedgerLok	
Simpson Strong-Tie	Strong-Drive Screws (SDS, SDW)	

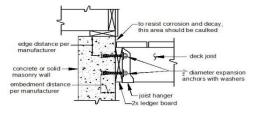
FOOTINGS



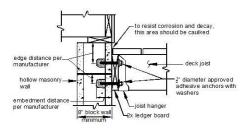
LEDGER BOARD-TO-BAND BOARD ATTACHMENT



LEDGER BOARD-TO-SOLID FOUNDATION ATTACHMENT



LEDGER BOARD-TO-HOLLOW FOUNDATION ATTACHMENT



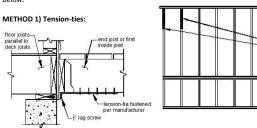
LATERAL SUPPORT

All decks greater than 30 inches above grade must resist lateral load using one of the applicable methods noted

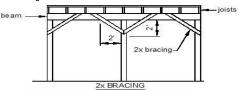
install tension. tie to underside of outside and

first inside joists

on each side of

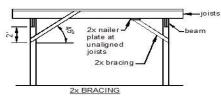


METHOD 2) Diagonal bracing:



- Place 2x bracing at all beam-post locations.
 Alternate bracing between front and back of 4x4 or 4x6 posts.

DIAGONAL BRACING AT BEAM-POST LOCATION



DIAGONAL BRACING AT JOIST-POST LOCATION

Beam Span	Joist Span	Size of	Size of	Minimum Thickness	
less than or equal to:		Square	Round		
	10'	16"	18"	8"	
8'	14'	20"	22"	8"	
	18'	22"	24"	8"	
	10'	16"	18"	8"	
12'	14'	20"	22"	8"	
	18'	22"	24"	10"	
17'	10'	22"	24"	10"	
	14'	22"	24"	10"	